UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,873	12/31/2003	Juha Uola	915-005.088	6328

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EXAMINER
KANG, INSUN

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/749,873	UOLA ET AL.
Office Action Summary	Examiner	Art Unit	
	INSUN KANG	2193	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 April 2008 and 28 January 2008*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,2,4-13,15-20 and 22-37* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,2,4-13,15-20 and 22-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *1/28/2008*.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

1.   This action is in response to the amendment filed on 4/10/2008 and 1/28/2008.

2.   As per applicant's request, claims 1, 11, 19, 22, and 33 have been amended and claim 37

has been added. Claims 1, 2, 4-13, 15-20, and 22-37 are pending in the application.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

4.   Claims 1, 2, 4-6, 10-13, 15, 19, 20, 22-28, and 32-37 are rejected under 35 U.S.C. 103(a)

as being unpatentable over Blow (WO 99/53621, published on 10/21/1999).

Per claim 1:

Blow discloses:

- an interface for providing a connection with an accessory (i.e. "attachment of the

external accessory 102 through interface 112," page 4, lines 4-5)

-said accessory comprising a library for enabling said electronic device to use the

accessory (i.e. "Accessory interface memory 118 contains the interface software needed

for the mobile station 100 to functionally interact with the specific external accessory

102," page 6 lines 6-10)

-wherein the electronic device further comprises means for providing said library available to the electronic device during operation of the electronic device (i.e. "mobile station controller 108 writes the accessory interface software into interface upload memory 106, where it is temporarily stored," page 6 lines 12-17; "dynamic upload," page 2, lines 18-21);

- said interface is configured for making said library available to the electronic device directly (i.e. "download of the accessory interface software code from accessory interface memory 118 in external accessory 102 to interface upload memory 106 in mobile station 100," page 6 lines 26-30).

Blow discloses the direct communication between the mobile station and the external accessory through the interface (page 6 lines 26-30). Blow does not explicitly disclose that the interface is configured for making said library available without downloading from said accessory device so as to be accessible as if said library were installed on said electronic device. However, it would be obvious to configure the interface to make the library only available from the accessory device to the mobile station by maintaining the connection between the mobile station and the accessory device through the interface, rather than downloading, when the power is off, so that upon turning the power on, the library can be available for download as if the library were installed on the mobile station.

Per claim 2:

Blow further discloses:

- an application programming interface, wherein the electronic device is further

configured for providing said application programming interface available to the

electronic device (i.e. "all of the necessary routines to interact fully with the external

accessory 102," page 6 lines 30-32).

Per claim 4:

Blow further discloses:

- an interface management module for downloading said library to the electronic device

(i.e. control routines, page 6 lines 35-39).

Per claim 5:

Blow further discloses:

- said library and said application programming interface providing a connection between

said accessory device and an application loaded to the electronic device (page 6 lines 30-

32).

Per claim 6:

Blow further discloses:

- said interface configured for detecting an attachment of the accessory to the electronic

device (i.e. "attach detector 110," page 4 lines 3-11).

Per claim 10:

Blow further discloses:

- means for making said application programming interface available for at least one
application loaded to the electronic device before starting the execution of said
application (i.e. the accessory interface software …may contain the algorithms for
controlling the volume of the auxiliary speaker," page 6 lines 30-35).

Per claim 11:

Blow discloses:

- An accessory comprising a library for enabling an electronic device to use the accessory
(i.e. "Accessory interface memory 118 contains the interface software needed for the
mobile station 100 to functionally interact with the specific external accessory 102," page
6 lines 6-10)

- and an interface for providing a connection with said electronic device (i.e. "attachment
of the external accessory 102 through interface 112," page 4, lines 4-5).

- said interface is configured for making said library available to the electronic device
during operation of the electronic device directly (i.e. "download of the accessory
interface software code from accessory interface memory 118 in external accessory 102
to interface upload memory 106 in mobile station 100," page 6 lines 26-30; "dynamic
upload," page 2, lines 18-21);

        Blow discloses the direct communication between the mobile station and the
external accessory through the interface (page 6 lines 26-30). Blow does not explicitly
disclose that the interface is configured for making said library available without

downloading from said accessory device so as to be accessible as if said library were

installed on said electronic device. However, it would be obvious to configure the

interface to make the library only available from the accessory device to the mobile

station by maintaining the connection between the mobile station and the accessory

device through the interface, rather than downloading, when the power is off, so that

upon turning the power on, the library can be available for download as if the library

were installed on the mobile station.

Per claim 12:

Blow further discloses:

- a functionality that is usable for applications on said electronic device (i.e. "Accessory

interface memory 118 contains the interface software needed for the mobile station 100

to functionally interact with the specific external accessory 102," page 6 lines 6-10).

Per claim 13, it is the accessory version of claim 2, respectively, and is rejected for the

same reasons set forth in connection with the rejection of claim 2 above.

Per claim 15:

Blow further discloses:

-said library comprises computer program having computer readable instructions (i.e.

page 6 lines 30-35).

Per claims 19-20, they are the system versions of claims 1-2 , respectively, and are

rejected for the same reasons set forth in connection with the rejection of claims 1-2

above.

Per claims 22-26, they are the method versions of claims 1,2, and 4-6, respectively, and

are rejected for the same reasons set forth in connection with the rejection of claims 1,2,

and 4-6 above.

Per claim 27:

Blow further discloses:

- downloading said library from the accessory device to the mobile communication

device when the attachment of the accessory device is detected (i.e. page 4, lines 3-11).

Per claims 28 and 32, they are the method versions of claims 5 and10, respectively, and

are rejected for the same reasons set forth in connection with the rejection of claims 5 and

10 above.

 Per claim 33, it is the program product version of claim 1, respectively, and is rejected

for the same reasons set forth in connection with the rejection of claim 1 above.

Per claim 34:

Blow discloses:

- A method for providing accessing an accessory of an electronic device, the method comprising storing a library to the accessory for enabling said electronic device to use the accessory (i.e. "mobile station controller 108 writes the accessory interface software into interface upload memory 106, where it is temporarily stored," page 6 lines 12-17).

- providing a connection between said electronic device and said accessory (i.e. "attachment of the external accessory 102 through interface 112," page 4, lines 4-5)

- providing said library available to the electronic device (i.e. "Accessory interface memory 118 contains the interface software needed for the mobile station 100 to functionally interact with the specific external accessory 102," page 6 lines 6-10).

- making said library available to the electronic device directly (i.e. "download of the accessory interface software code from accessory interface memory 118 in external accessory 102 to interface upload memory 106 in mobile station 100," page 6 lines 26-30).

Blow discloses the direct communication between the mobile station and the external accessory through the interface (page 6 lines 26-30). Blow does not explicitly disclose that the interface is configured for making said library available without downloading from said accessory device so as to be accessible as if said library were installed on said electronic device. However, it would be obvious to configure the interface to make the library only available from the accessory device to the mobile station by maintaining the connection between the mobile station and the accessory device through the interface, rather than downloading, when the power is off, so that

upon turning the power on, the library can be available for download as if the library

were installed on the mobile station.

Per claim 35, it is the method version of claim 2, respectively, and is rejected for the

same reasons set forth in connection with the rejection of claim 2 above.

Per claim 36:

Blow discloses authentication of external accessory and that the secret code stored in the

mobile station is used to authenticate the external accessory (i.e. page 5, lines 27-39).

Therefore, it would be obvious that if the mobile station program(s) is not valid, the

accessory library wouldn't be available for such an unauthorized program.

Per claim 37:

Blow discloses: a platform having a hardware section and a software section, said

platform being configured to accept and store information about said library after said

library is detected, wherein the electronic device is further configured to use the

information to access said library when said library is needed by an application running

on said electronic device, said library being usable by said application as if installed on

said platform (i.e. page 6, lines 4-17, 26-35).

5.   Claims 7, 8, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Blow (WO 99/53621, published on 10/21/1999) in view of Isberg et al. (US Patent 6,201,975)

hereafter Isberg.

        Per claim 7:

        Blow teaches an attach detector that detects the physical connection of mobile station to

external accessory by detecting a transition in current (i.e. page 4, lines 8-11).   Blow does not

explicitly teach detecting a detachment of the accessory from the electronic device.   However,

Isberg teaches such a detachment detector was known in the pertinent art, at the time applicant's

invention was made, to release the connection to the accessory unit (i.e. col. 1 lines 60-65).   It

would have been obvious for one having ordinary skill in the art to modify Blow's disclosed

system to incorporate the teachings of Isberg.   The modification would be obvious because one

having ordinary skill in the art would be motivated to detect the detachment of the accessory to

disable the connection between the two devices and release memory space used to accommodate

any code for the accessory unit as suggested by Isberg (i.e. co. 1 lines 60-65).

        Per claim 8:

        Isberg further discloses:

-       an interface management module for disabling a connection between an application

        loaded to the electronic device and said library when the detachment of the accessory

        is detected (i.e. co. 1 lines 60-65).

Per claims 29 and 30, they are the method versions of claims 7 and 8, respectively, and

are rejected for the same reasons set forth in connection with the rejection of claims 7 and

8 above.

6.   Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blow

(WO 99/53621, published on 10/21/1999) in view of Wendelrup et al. (WO 02/102035 A2,

published on 12/19/2002) hereafter Wendelrup.

Per claims 16 and 17:

Blow does not explicitly teach indicating the attachment and detachment of the accessory to

the electronic device. However, Wendelrup teaches displaying such a status indication to the

electronic device was known in the pertinent art, at the time applicant's invention was made,

to indicate the accessory status information to the user (i.e. page 2, lines 23-32; page 7, lines

12-17). It would have been obvious for one having ordinary skill in the art to modify Blow's

disclosed system to incorporate the teachings of Wendelrup. The modification would be

obvious because one having ordinary skill in the art would be motivated to indicate the

attachment and detachment of the accessory device to the electronic device to the user as

suggested by Wendelrup.

7.   Claims 9, 18, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Blow (WO 99/53621, published on 10/21/1999) in view of Applicant's Admitted Prior Art

(hereinafter referred to as "APA") disclosed in the background section of the instant application.

Per claim 9:

Blow discloses the "accessory specific interface software being stored in the external accessory itself (page 2, lines 19-20)." Blow does not explicitly teach that the accessory further comprising at least one application to be loaded to the electronic device. However, APA teaches downloading of application software stored on an accessory device to a mobile device was known in the pertinent art, at the time applicant's invention was made, to download a desired application of the accessory device to the electronic device (i.e. page 3 lines 16-18). It would have been obvious for one having ordinary skill in the art to modify Blow's disclosed system to incorporate the teachings of APA. The modification would be obvious because one having ordinary skill in the art would be motivated to download any desired application stored on the external accessory device.

Per claims 18 and 31, they are the accessory and method versions of claim 9 respectively, and are rejected for the same reasons set forth in connection with the rejection of claim 9 above.

Response to Arguments

8.   Applicant's arguments filed on 4/10/2008 have been fully considered but they are not persuasive.

The applicant states that: Blow discloses that the accessory interface software is first downloaded to the mobile station and then executed from the memory of the mobile station.

That software of Blow is not accessible as if it were installed on the electronic device; rather, it is downloaded to the electronic device (remark, 9-10).

In response, the claims do not specifically recite the method of making the library available as if the library were installed on the device. Blow discloses "dynamic upload" of the interface software to the mobile station only when it is required. Therefore, the software is made available as if it were installed on the mobile station during an operation of the mobile station (i.e. page 2, lines 14-21).

9.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to INSUN KANG whose telephone number is (571)272-3724. The examiner can normally be reached on M-R 7:30-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis A. Bullock, Jr. can be reached on 571-272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Insun Kang/
Examiner, Art Unit 2193